



**EXPERIMENTAL INVESTIGATION  
OF MAGNESIUM PHOSPHATE  
CEMENT BASED CONCRETE**



**A PROJECT PHASE-1 REPORT**

*Submitted by*

**PRIYADARSHIKA.S (18307010)**

*In partial fulfillment for the award of the degree*

*Of*

**MASTER OF ENGINEERING**

*in*

**STRUCTURAL ENGINEERING**

**PAAVAI ENGINEERING COLLEGE**

**(AUTONOMOUS)**

**NAMAKKAL -637018**

**DECEMBER - 2019**



**STRENGTHENING OF RCC  
BEAMS MADE WITH  
GEOPOLYMER CONCRETE**



**A PROJECT PHASE – I REPORT**

*Submitted by*

**MANIVANNAN.S (18307005)**

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**MASTER OF ENGINEERING**

*in*

**STRUCTURAL ENGINEERING**

**PAAVAI ENGINEERING COLLEGE, NAMAKKAL**

**(AUTONOMOUS)**

**DECEMBER - 2019**



**EXPERIMENTAL INVESTIGATION  
ON SELF COMPACTING  
CONCRETE MADE WITH  
RECYCLED CONCRETE  
AGGREGATE**



**A PROJECT PHASE – I REPORT**

*Submitted by*

**PRAVEEN KUMAR .T(18307009)**

*in partial fulfillment for the award of the degree of*

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**STRUCTURAL ENGINEERING**

**PAAVAI ENGINEERING COLLEGE, NAMAKKAL**

**(AUTONOMOUS)**

**DECEMBER - 2019**



**EXPERIMENTAL INVESTIGATION  
ON STRENGTH AND DURABILITY  
PROPERTIES OF GPC WITH  
DIFFERENT POZZOLANIC  
MATERIALS**



**A PROJECT PHASE – I REPORT**

*Submitted by*

**ARUNKUMAR.K (18307001)**

*in partial fulfillment for the award of the degree of*

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**STRUCTURAL ENGINEERING**

**PAAVAI ENGINEERING COLLEGE, NAMAKKAL**

**(AUTONOMOUS)**

**DECEMBER - 2019**



**COMPARISON OF SEISMIC  
BEHAVIOUR OF STRUCTURE WITH  
ORDINARY BRICK AND ACC**



**BLOCKS FOR SHEAR WALL AND BASE ISOLATION**

**A PROJECT REPORT**

*Submitted by*

**PONSANGARI P K(18307008)**

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**MASTER OF ENGINEERING**

**in**

**STRUCTURAL ENGINEERING**

**PAAVAI ENGINEERING COLLEGE**

**(AUTONOMOUS)**

**NAMAKKAL -637018**

**DECEMBER - 2019**



**EXPERIMENTAL STUDY ON  
STRENGTH, DURABILITY AND  
CORROSION ANALYSIS OF CONCRETE  
STRUCTURES BY SISAL FIBER AND  
ALOE VERA GEL**



**A PROJECT PHASE – I REPORT**

*Submitted by*

**GOWTHAM VIGNESH.M**

**(18307019)**

*in partial fulfillment for the award of the degree of*

**MASTER OF ENGINEERING**

*in*

**STRUCTURAL ENGINEERING**

**PAAVAI ENGINEERING COLLEGE, NAMAKKAL**

**(AUTONOMOUS)**

**DECEMBER - 2019**



**DESIGN AND EXPERIMENTAL  
STUDY ON STEEL TRUSS BRIDGE  
USING SPLICES CONNECTIONS  
WITH SEISMIC ANALYSIS**



**A PROJECT PHASE-I REPORT**

*Submitted by*

**RAVI SANKAR.V (18307012)**

*in partial fulfillment for the award of the degree of*

**MASTER OF ENGINEERING**

**in**

**STRUCTURAL ENGINEERING**

**PAAVAI ENGINEERING COLLEGE**

**(AUTONOMOUS)**

**NAMAKKAL -637 018**

**DECEMBER - 2019**



**EXPERIMENTAL STUDY ON  
BEHAVIOUR OF RC BEAMS BY  
USING REBAR COUPLER**



**A PROJECT PHASE – I REPORT**

*Submitted by*

**MOHAN.V (18307007)**

*in partial fulfillment for the award of the degree of*

**MASTER OF ENGINEERING**

*in*

**STRUCTURAL ENGINEERING**

**PAAVAI ENGINEERING COLLEGE, NAMAKKAL**

**(AUTONOMOUS)**

**DECEMBER - 2019**





**EXPERIMENTAL INVESTIGATION  
ON THE BEHAVIOUR OF  
FLEXURAL STRENGTHENING OF  
BEAMS USING BFRP SHEET**



**A PROJECT PHASE – I REPORT**

*Submitted by*

**SELVAPRIYA.R (18307014)**

*in partial fulfillment for the award of the degree of*

**MASTER OF ENGINEERING**

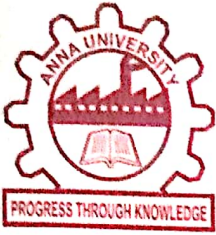
*in*

**STRUCTURAL ENGINEERING**

**PAAVAI ENGINEERING COLLEGE, NAMAKKAL**

**(AUTONOMOUS)**

**OCTOBER - 2019**



**PERSISTANCE CHARACTERISTICS  
OF CONCRETE USING GRAM  
FLOUR AS NATURAL ADMIXTURE**



**A PROJECT PHASE – I REPORT**

*Submitted by*

**SURIYAKALA.R (18307016)**

*in partial fulfillment for the award of the degree of*

**MASTER OF ENGINEERING**

*in*

**STRUCTURAL ENGINEERING**

**PAAVAI ENGINEERING COLLEGE, NAMAKKAL**

**(AUTONOMOUS)**

**DECEMBER - 2019**



**EXPERIMENTAL INVESTIGATION  
ON BEHAVIOUR OF INCREASING  
THE STRENGTH OF CONCRETE  
BY USING HYPO SLUDGE WITH  
SIKACRETE**



**A PROJECT PHASE – I REPORT**

*Submitted by*

**THENMOZHILS (18307017)**

*in partial fulfillment for the award of the degree of*

**MASTER OF ENGINEERING**

*in*

**STRUCTURAL ENGINEERING**

**PAAVAI ENGINEERING COLLEGE, NAMAKKAL**

**(AUTONOMOUS)**

**DECEMBER - 2019**



**EXPERIMENTAL STUDY ON  
COMPOSITE CONCRETE RC  
FRAME STRUCTURE USING  
SISAL FIBER**



**A PROJECT PHASE – I REPORT**

*Submitted by*

**VANMATHI .P(18307018)**

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*in*

**STRUCTURAL ENGINEERING**

**PAAVAI ENGINEERING COLLEGE, NAMAKKAL**

**(AUTONOMOUS)**

**DECEMBER - 2019**



**FLEXURAL STRENGTHENING OF  
RC BEAMS USING JUTE FIBRE  
REINFORCED POLYMER**



**A PROJECT PHASE-I REPORT**

*Submitted by*

**MOHAMMED HANIFA.M (18307006)**

*In partial fulfillment for the award of the degree*

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**MASTER OF ENGINEERING**

*in*

**STRUCTURAL ENGINEERING**

**PAAVAI ENGINEERING COLLEGE, NAMAKKAL**

**(AUTONOMOUS)**

**DECEMBER-2019**



**EXPERIMENTAL INVESTIGATION  
ON FLEXURAL STRENGTH  
BEHAVIOUR OF REACTIVE  
POWDER CONCRETE**



**A PROJECT PHASE – I REPORT**

*Submitted by*

**RAMKUMAR.R (18307011)**

*in partial fulfillment for the award of the degree of*

**MASTER OF ENGINEERING**

*in*

**STRUCTURAL ENGINEERING**

**PAAVAI ENGINEERING COLLEGE, NAMAKKAL**

**(AUTONOMOUS)**

**DECEMBER - 2019**



**COMPARATIVE STUDY ON STAINLESS STEEL  
TUBULAR COLUMN FILLED WITH PLAIN  
AND LIGHT WEIGHT CONCRETE**



**PROJECT PHASE I REPORT**

*submitted by*

**SARANYA .R (18307013)**

*In partial fulfillment for the award of the degree of*

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*in*

**STRUCTURAL ENGINEERING**

**PAAVAI ENGINEERING COLLEGE, NAMAKKAL**

**(AUTONOMOUS)**

**DECEMBER - 2019**



**EXPERIMENTAL INVESTIGATION  
ON PERFORMANCE OF FIBRE  
REINFORCED SELF  
COMPACTING CONCRETE  
UNDER STATIC AND DYNAMIC  
LOADING**



**A PROJECT PHASE – I REPORT**

*Submitted by*

**HARI PRASATH .R(18307002)**

*in partial fulfillment for the award of the degree of*

**MASTER OF ENGINEERING**

*in*

**STRUCTURAL ENGINEERING**

**PAAVAI ENGINEERING COLLEGE, NAMAKKAL**

**(AUTONOMOUS)**

**DECEMBER-2019**





**EXPERIMENTAL INVESTIGATION ON WASTE  
PLASTIC FIBRE CONCRETE WITH PARTIAL  
REPLACEMENT OF COARSE AGGREGATE BY  
RECYCLED COARSE AGGREGATE**



**A PROJECT PHASE – I REPORT**

*Submitted by*

**JANARTHANAN.G (18307003)**

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**MASTER OF ENGINEERING**

*in*

**STRUCTURAL ENGINEERING**

**PAAVAI ENGINEERING COLLEGE, NAMAKKAL**

**(AUTONOMOUS)**

**DECEMBER - 2019**



**EXPERIMENTAL INVESTIGATION  
ON BEHAVIOUR OF INCREASING  
THE STRENGTH OF CONCRETE BY  
USING HYPO SLUDGE WITH SIKACRETE**



**A PROJECT PHASE - II REPORT**

*Submitted by*

**THENMOZHI .S (18307017)**

*In partial fulfillment for the award of the degree*

*of*

**MASTER OF ENGINEERING**

**in**

**STRUCTURAL ENGINEERING**

**PAAVAI ENGINEERING COLLEGE**

**(AUTONOMOUS)**

**NAMAKKAL -637018**

**MAY - 2020**



**PERSISTENCE CHARACTERISTICS  
OF CONCRETE USING GRAM  
FLOUR AS NATURAL ADMIXTURE**



**A PROJECT PHASE – II REPORT**

*Submitted by*

**SURIYAKALA.R (18307016)**

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*in*

**STRUCTURAL ENGINEERING**

**PAAVAI ENGINEERING COLLEGE**

**(AUTONOMOUS)**

**NAMAKKAL-637 018**

**MAY - 2020**



**EXPERIMENTAL STUDY ON  
COMPOSITE CONCRETE RC  
FRAME STRUCTURE USING  
SISAL FIBRE**



**A PROJECT PHASE – II REPORT**

*Submitted by*

**VANMATHI .P (18307018)**

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*in*

**STRUCTURAL ENGINEERING**

**PAAVAI ENGINEERING COLLEGE, NAMAKKAL**

**(AUTONOMOUS)**

**MAY - 2020**



**DESIGN AND EXPERIMENTAL  
STUDY ON STEEL TRUSS BRIDGE  
USING SPLICE CONNECTIONS**



**A PROJECT PHASE-II WORK REPORT**

*Submitted by*

**RAVI SANKAR.V (18307012)**

*in partial fulfillment for the award of the degree of*

**MASTER OF ENGINEERING**

**in**

**STRUCTURAL ENGINEERING**

**PAAVAI ENGINEERING COLLEGE**

**(AUTONOMOUS)**

**NAMAKKAL -637 018**

**MAY - 2020**



**EXPERIMENTAL STUDY ON  
STRENGTH, DURABILITY AND  
CORROSION ANALYSIS OF CONCRETE  
STRUCTURES BY SISAL FIBER AND  
ALOE VERA GEL**



**A PROJECT PHASE – II WORK REPORT**

*Submitted by*

**GOWTHAM VIGNESH.M**

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**STRUCTURAL ENGINEERING**

**PAAVAI ENGINEERING COLLEGE, NAMAKKAL**

**(AUTONOMOUS)**

**MAY - 2020**



**EXPERIMENTAL STUDY ON BEHAVIOUR  
OF CONCRETE FILLED TUBULAR  
COLUMN WITH GFRP WRAPPING**



**A PROJECT PHASE – II WORK REPORT**

*Submitted by*  
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**MASTER OF ENGINEERING**  
*in*  
**STRUCTURAL ENGINEERING**

**PAAVAI ENGINEERING COLLEGE**  
**(AUTONOMOUS)**

**NAMAKKAL – 637 018**

**MAY - 2020**



**STRENGTHENING OF RCC  
BEAMS MADE WITH  
GEOPOLYMER CONCRETE**



**A PROJECT PHASE-II WORK REPORT**

*Submitted by*

**MANIVANNAN.S (18307005)**

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**PAAVAI ENGINEERING COLLEGE**

**(AUTONOMOUS)**

**NAMAKKAL -637 018**

**MAY - 2020**





**EXPERIMENTAL STUDY ON  
BEHAVIOUR OF RC BEAMS BY  
USING REBAR COUPLER**



**A PROJECT PHASE – II  
REPORT**

*Submitted by*

**MOHAN.V ( 18307007 )**

*In partial fulfillment for the  
award of the degree*

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**MASTER OF ENGINEERING  
In  
STRUCTURAL ENGINEERING**

**PAAVAI ENGINEERING COLLEGE (AUTONOMOUS)**

**NAMAKKAL -637018**

**MAY - 2020**



**EXPERIMENTAL INVESTIGATION  
ON STRENGTH AND DURABILITY  
PROPERTIES OF GPC WITH  
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**A PROJECT PHASE-II WORK REPORT**

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**in**

**STRUCTURAL ENGINEERING**

**PAAVAI ENGINEERING COLLEGE**

**(AUTONOMOUS)**

**NAMAKKAL -637 018**

**MAY - 2020**



**EXPERIMENTAL INVESTIGATION ON  
WASTE PLASTIC FIBRE CONCRETE  
WITH PARTIAL REPLACEMENT OF  
COARSE AGGREGATE BY RECYCLED  
COARSE AGGREGATE**



**A PROJECT PHASE – II REPORT**

*Submitted by*

**JANARTHANAN.G (18307003)**

*in partial fulfillment for the award of the degree of*

**MASTER OF ENGINEERING**

*in*

**STRUCTURAL ENGINEERING**

**PAAVAI ENGINEERING COLLEGE, NAMAKKAL**

**(AUTONOMOUS)**

**MAY-2020**



**EXPERIMENTAL INVESTIGATION  
ON PERFORMANCE OF FIBER  
REINFORCED SELF COMPACTING**



**CONCRETE UNDER STATIC AND DYNAMIC LOADING**

**A PROJECT PHASE-II WORK REPORT**

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**in**

**STRUCTURAL ENGINEERING**

**PAAVAI ENGINEERING COLLEGE**

**(AUTONOMOUS)**

**NAMAKKAL -637 018**

**MAY - 2020**



**COMPARISON OF SEISMIC  
BEHAVIOUR OF STRUCTURE WITH  
ORDINARY BRICK AND ACC**



**BLOCKS FOR SHEAR WALL AND BASE ISOLATION**

**A PROJECT REPORT**

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**MAY - 2020**



**FLEXURAL STRENGTHENING OF  
RC BEAMS USING JUTE FIBRE  
REINFORCED POLYMER**



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**PAAVAI ENGINEERING COLLEGE, NAMAKKAL**

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**MAY-2020**



**EXPERIMENTAL INVESTIGATION  
ON SELF COMPACTING  
CONCRETE MADE WITH  
RECYCLED CONCRETE AGGREGATE**



**A PROJECT PHASE-II WORK REPORT**

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**PAAVAI ENGINEERING COLLEGE**

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**NAMAKKAL -637 018**

**MAY - 2020**





**EXPERIMENTAL INVESTIGATION ON  
THE BEHAVIOUR OF FLEXURAL  
STRENGTHENING OF BEAMS USING**



**BASALT FIBRE REINFORCED POLYMER SHEET**

**A PROJECT PHASE – II WORK REPORT**

*Submitted by*

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**MAY - 2020**



**EXPERIMENTAL INVESTIGATION  
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**MAY - 2020**